

Claims:

1. In a harvester, the improvement comprising:
 - a harvesting header operable to sever crop materials from the ground and to project the severed materials rearwardly in a stream; and
 - a cross-conveyor mounted rearwardly of said header in position for receiving the stream of severed materials from the header,
 - said cross-conveyor being disposed to convey the severed materials generally laterally of the path of travel of the harvester and to discharge the materials outboard of the harvester,
 - said cross-conveyor including a first conveyor portion operable at a first speed and a second conveyor portion operable at a second, faster speed for receiving materials from the first portion and propelling them off an outboard end of the cross-conveyor.
2. In a harvester as claimed in claim 1,
 - said second conveyor portion projecting upwardly and outwardly from the first conveyor portion at an angle thereto.
3. In a harvester as claimed in claim 1,
 - said first conveyor portion including a plurality of side-by-side, driven rollers extending transversely of the direction of material flow along the cross-conveyor to effectively present an upper conveying surface for the materials.
4. In a harvester as claimed in claim 3,
 - at least certain of said rollers having laterally outwardly extending projections thereon.
5. In a harvester as claimed in claim 4,
 - said projections comprising elongated straps of metallic material.
6. In a harvester as claimed in claim 3,
 - said first conveyor portion including an endless belt.

7. In a harvester as claimed in claim 3,
said second conveyor portion projecting upwardly and outwardly from the first conveyor
portion at an angle thereto.

5 8. In a harvester as claimed in claim 1,
said cross-conveyor being selectively raisable into a raised position to permit the stream of
materials from the header to pass beneath the raised cross-conveyor.

10 9. In a harvester, the improvement comprising:
a harvesting header operable to sever crop materials from the ground and to project the
severed materials rearwardly in a stream; and
a cross-conveyor mounted rearwardly of said header in position for receiving the stream of
severed materials from the header,
said cross-conveyor being disposed to convey the severed materials generally laterally of the
15 path of travel of the harvester and to discharge the materials outboard of the
harvester,
said cross-conveyor including a first conveyor portion and a second conveyor portion
projecting upwardly and outwardly from the first conveyor portion at an angle thereto
for receiving materials from the first portion and propelling them off an outboard end
20 of the cross-conveyor.

10. In a harvester as claimed in claim 9,
said first conveyor portion operating at a first speed and said second conveyor portion
operating at a second, faster speed.

25 11. In a harvester as claimed in claim 9,
said second conveyor portion including a plurality of side-by-side, driven rollers extending
transversely of the direction of material flow along the cross-conveyor to effectively
present an upper conveying surface for the materials.

30 12. In a harvester as claimed in claim 11,
at least certain of said rollers having laterally outwardly extending projections thereon.

13. In a harvester as claimed in claim 12,
said projections comprising elongated straps of metallic material.

5 14. In a harvester as claimed in claim 11,
said first conveyor portion including an endless belt.

10 15. In a harvester as claimed in claim 11,
said first conveyor portion operating at a first speed and said second conveyor portion
operating at a second, faster speed.

15 16. In a harvester as claimed in claim 9,
said cross-conveyor being selectively raisable into a raised position to permit the stream of
materials from the header to pass beneath the raised cross-conveyor.

20 17. In a harvester as claimed in claim 1,
said second conveyor portion being selectively detachable from said first conveyor portion,
said first conveyor portion being operable separately from said second conveyor portion.

25 18. A triple windrowing attachment for a harvester comprising:
a frame adapted for attachment to the harvester;
a cross-conveyor supported by the frame; and
a power device operably coupled with the cross-conveyor for raising and lowering the cross-
conveyor relative to the frame between raised and lowered positions,
said cross-conveyor including a first conveyor portion operable at a first speed and a second,
downstream conveyor portion operable at a second faster speed for accelerating crop
materials received from the first conveyor portion.

30 19. A triple windrowing attachment as claimed in claim 18,
said second conveyor portion being angled upwardly from the first conveyor portion.

20. A triple windrowing attachment as claimed in claim 18,
said first conveyor portion including an endless, flat belt presenting a upper conveying
surface,

5 said second conveyor portion including a plurality of side-by-side, driven rollers disposed
transversely of the path of travel of crop material on the cross-conveyor and
effectively presenting an upper conveying surface.

10 21. A triple windrowing attachment as claimed in claim 20,
said rollers having crop-engaging projections thereon.

22. A triple windrowing attachment as claimed in claim 20,
said second conveyor portion being angled upwardly from the first conveyor portion.

15 23. A triple windrowing attachment as claimed in claim 18,
said second conveyor portion being detachably secured to said first conveyor portion,
said first conveyor portion being operable without said second conveyor portion attached
thereto.

20 24. A supplemental crop conveyor adapted for attachment to the discharge end of a main
crop conveyor, said supplemental conveyor comprising:
a frame having a receiving end and a discharging end;
structure supported by said frame and presenting an upper, moving, crop-conveying surface;
brackets at said receiving end of the frame; and
fasteners operably associated with said brackets for detachably securing the supplemental
25 conveyor to the discharge end of the main conveyor.

25. A supplemental crop conveyor as claimed in claim 24,
said structure including a plurality of side-by-side driven rollers rotatably supported by said
frame,
said rollers being driven in a common direction such that their upper peripheries present said
crop-conveying surface.

26. A supplemental crop conveyor as claimed in claim 25,
said rollers having crop-engaging projections thereon.

27. A supplemental crop conveyor as claimed in claim 25,
5 further comprising a hydraulic motor supported on said frame and operably coupled with the
rollers for effecting said driving thereof.

28. A harvesting method comprising:
making a first harvesting pass in one direction through a field of standing crop materials
10 including severing standing materials from the ground and depositing them onto the
ground within a mowed strip created by the first harvesting pass to form a first
deposit of severed materials,
said first harvesting pass being carried out at a location spaced inwardly from an edge of
uncut standing crop materials so as to leave uncut standing crop materials along
15 opposite sides of the mowed strip;
making a second harvesting pass in the opposite direction through uncut standing crop
materials including severing standing materials from the ground and directing them
laterally onto the ground within the mowed strip of the first pass to form a second
deposit of severed materials in the mowed strip in association with the first deposit;
20 and
making a third harvesting pass in said one direction through uncut standing crop materials
including severing standing materials from the ground and directing them laterally
onto the ground within the mowed strip of the first pass to form a third deposit of
severed materials in the mowed strip in association with the first and second deposits,
25 said second and third passes being carried out with a cross-conveyor in a lowered position
for receiving a stream of severed materials before they are returned to the ground after
severance and for moving such materials in a lateral direction to the mowed strip of
the first pass,
said first pass being carried out with the cross-conveyor in a raised position for allowing the
30 stream of severed materials to pass beneath the raised cross-conveyor and return to
the ground in the mowed strip.

29. A harvesting method as claimed in claim 28,
said first pass creating a band of uncut standing crop materials along one side of the mowed
strip and a body of uncut standing crop materials along the other side of the mowed
strip,

5 said second pass being carried out through said body of uncut standing crop materials and
said third pass being carried out through said band of uncut standing crop materials.

30. A harvesting method as claimed in claim 28,
said step of conveying the materials in a lateral direction including moving the materials at
10 a first speed for a predetermined distance during such conveyance and then
accelerating the materials to a second faster speed before they leave the cross-
conveyor.

31. A harvesting method as claimed in claim 30,
15 further comprising the step of directing the severed materials upwardly before they leave the
cross-conveyor.

32. A harvesting method as claimed in claim 28,
further comprising the step of directing the severed materials upwardly before they leave the
20 cross-conveyor.

33. A harvesting method as claimed in claim 32,
said step of conveying the materials in a lateral direction including moving the materials at
25 a first speed for a predetermined distance during such conveyance and then
accelerating the materials to a second faster speed before they leave the cross-
conveyor.

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